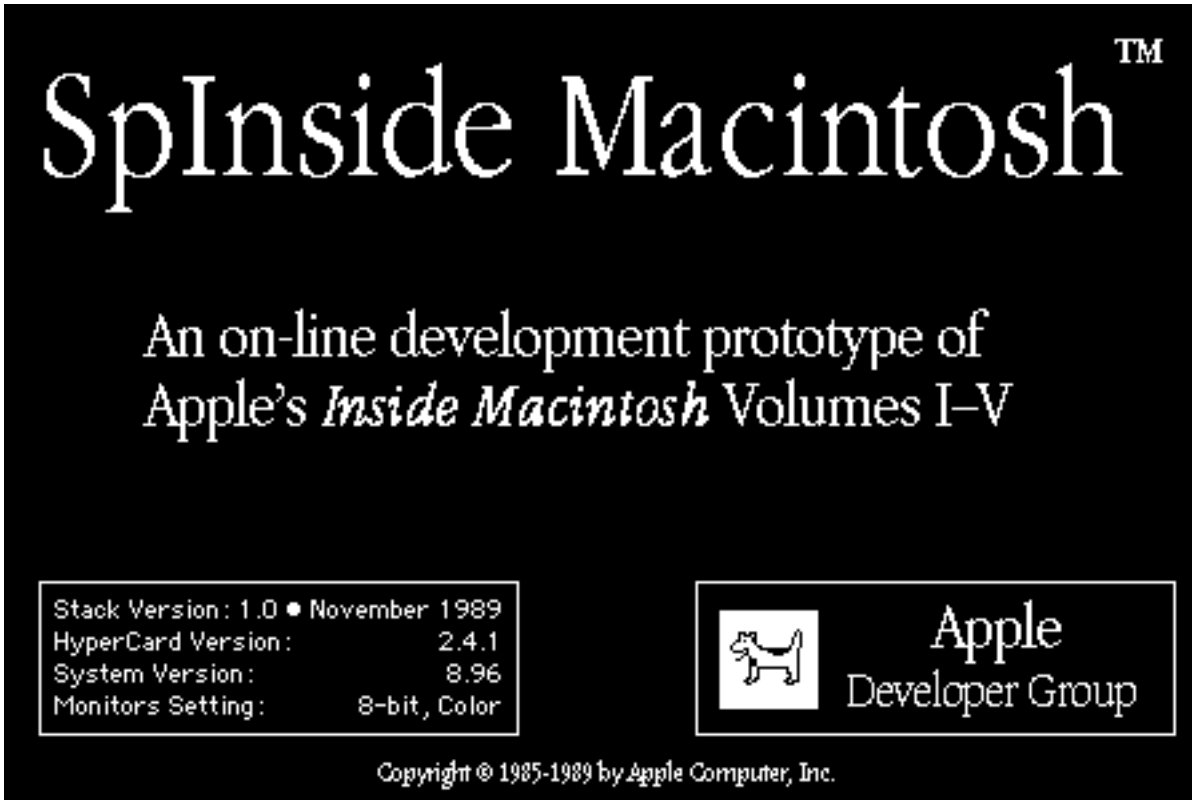

APPENDIX A: RESULT CODES

This appendix lists all the result codes returned by the Macintosh system software. They're ordered by value, for convenience when debugging; the names you should actually use in your program are also listed.

The result codes are grouped roughly according to the lowest level at which the error may occur. This doesn't mean that only routines at that level may cause those errors; higher-level software may yield the same result codes. For example, an Operating System Utility routine that calls the Memory Manager may return one of the Memory Manager result codes. Where a different or more specific meaning is appropriate in a different context, that meaning is also listed.

Value	Name	Meaning
0	noErr	No error
Operating System Event Manager Error		
1	evtNotEnb	Event type not designated in system event mask
SCSI Manager Errors		
2	scCommErr	Communications error (operations timeout)
3	scArbNBErr	Arbitration failed during SCSIGet; bus busy
4	scBadparmsErr	Bad parameter or TIB opcode
5	scPhaseErr	SCSI bus not in correct phase for attempted operation
6	scCompareErr	SCSI Manager busy with another operation when SCSIGet was called
7	scMgrBusyErr	SCSI Manager busy with another operation when SCSIGet was called
8	scSequenceErr	Attempted operation is out of sequence; e.g., calling SCSISelect before doing SCSIGet
9	scBusTOErr	Bus timeout before data ready on SCSIRBlind and SCSIWBlind
10	scComplPhaseErr	SCSIComplete failed; bus not in Status phase
System Error Handler Errors		
31	dsNotThe1	Not the requested disk
33	negZcbFreeErr	ZcbFree is negative
84	menuPrgErr	Happens when a menu is purged
Printing Manager Errors		
128	iPrAbort	Application or user requested abort
–1	iPrSavPFil	Saving spool file
Queuing Errors		
–1	qErr	Entry not in queue
–2	vTypErr	QType field of entry in vertical retrace queue isn't vType (in Pascal, ORD(vType))
Device Manager Errors		
–17	controlErr	Driver can't respond to this Control call Unimplemented control instruction (Printing Manager)
–18	statusErr	Driver can't respond to this Status call
–19	readErr	Driver can't respond to Read calls
–20	writErr	Driver can't respond to Write calls
–21	badUnitErr	Driver reference number doesn't match unit table
–22	unitEmptyErr	Driver reference number specifies NIL handle in unit table

–23	openErr	Requested read/write permission doesn't match driver's open permission Attempt to open RAM Serial Driver failed
–25	dRemovErr	Attempt to remove an open driver
–26	dInstErr	Couldn't find driver in resource file
–27	abortErr	I/O request aborted by KillIO
	iIOAbort	I/O abort error (Printing Manager)
–28	notOpenErr	Driver isn't open

File Manager Errors

–33	dirFulErr	File directory full
–34	dskFulErr	All allocation blocks on the volume are full
–35	nsvErr	Specified volume doesn't exist
–36	ioErr	I/O error
–37	bdNamErr	Bad file name or volume name (perhaps zero-length)
–38	fnOpnErr	File not open
–39	eofErr	Logical end-of-file reached during read operation
–40	posErr	Attempt to position before start of file
–42	tmfoErr	Too many files open
–43	fnfErr	File not found
–44	wPrErr	Volume is locked by a hardware setting
–45	fLckdErr	File is locked
–46	vLckdErr	Volume is locked by a software flag
–47	fBsyErr	File is busy; one or more files are open
–48	dupFNErr	File with specified name and version number already exists
–49	opWrErr	The read/write permission of only one access path to a file can allow writing
–50	paramErr	Error in parameter list Parameters don't specify an existing volume, and there's no default volume (File Manager) Bad positioning information (Disk Driver) Bad drive number (Disk Initialization Package)
–51	rfNumErr	Path reference number specifies nonexistent access path
–52	gfpErr	Error during GetFPos
–53	volOffLinErr	Volume not on-line
–54	permErr	Attempt to open locked file for writing
–55	volOnLinErr	Specified volume is already mounted and on-line
–56	nsDrvErr	No such drive; specified drive number doesn't match any number in the drive queue
–57	noMacDskErr	Not a Macintosh disk; volume lacks Macintosh-format directory
–58	extFSErr	External file system; file-system identifier is nonzero, or path reference number is greater than 1024
–59	fsRnErr	Problem during rename
–60	badMDBErr	Bad master directory block; must reinitialize volume
–61	wrPermErr	Read/write permission doesn't allow writing

Low-Level Disk Errors

–64	noDriveErr	Drive isn't connected
–65	offLinErr	No disk in drive

–66	noNybErr	Disk is probably blank
–67	noAdrMkErr	Can't find an address mark
–68	dataVerErr	Read-verify failed
–69	badCksmErr	Bad address mark
–70	badBtSlpErr	Bad address mark
–71	noDtaMkErr	Can't find a data mark
–72	badDCksum	Bad data mark
–73	badDBtSlp	Bad data mark
–74	wrUnderrun	Write underrun occurred
–75	cantStepErr	Drive error
–76	tk0BadErr	Can't find track 0
–77	initIWMErr	Can't initialize disk controller chip
–78	twoSideErr	Tried to read side 2 of a disk in a single-sided drive
–79	spdAdjErr	Can't correctly adjust disk speed
–80	seekErr	Drive error
–81	sectNFErr	Can't find sector

Also, to check for any low-level disk error:

–84	firstDskErr	First of the range of low-level disk errors
–64	lastDskErr	Last of the range of low-level disk errors

Clock Chip Errors

–85	clkRdErr	Unable to read clock
–86	clkWrErr	Time written did not verify
–87	prWrErr	Parameter RAM written did not verify
–88	prInitErr	Validity status is not $A8

AppleTalk Manager Errors

–91	ddpSktErr	DDP socket error: socket already active; not a well-known socket; socket table full; all dynamic socket numbers in use
–92	ddpLenErr	DDP datagram or ALAP data length too big
–93	noBridgeErr	No bridge found
–94	lapProtErr	ALAP error attaching/detaching ALAP protocol type: attach error when ALAP protocol type is negative, not in range, or already in table, or when table is full; detach error when ALAP protocol type isn't in table
–95	excessCollsns	ALAP no CTS received after 32 RTS's, or line sensed in use 32 times (not necessarily caused by collisions)
–97	portInUse	Driver Open error, port already in use
–98	portNotCf	Driver Open error, port not configured for this connection

Scrap Manager Errors

–100	noScrapErr	Desk scrap isn't initialized
–102	noTypeErr	No data of the requested type

Memory Manager Errors

–108	memFullErr	Not enough room in heap zone
	iMemFullErr	Not enough room in heap zone (Printing Manager)
–109	nilHandleErr	NIL master pointer
–111	memWZErr	Attempt to operate on a free block
–112	memPurErr	Attempt to purge a locked block
–117	memLockedErr	Block is locked

Resource Manager Errors

–192	resNotFound	Resource not found
–193	resFNotFound	Resource file not found
–194	addResFailed	AddResource failed
–196	rmvResFailed	RmveResource failed

Sound Manager Errors

–200	noHardware	No hardware support for the specified synthesizer
–201	notEnoughHardware	No more channels for the specified synthesizer
–203	queueFull	No room in the queue
–204	resProblem	Problem loading resource
–205	badChannel	Invalid channel queue length
–206	badFormat	Handle to 'snd ' resource was invalid

Slot Manager Errors (fatal)

–300	smEmptySlot	No card in this slot
–301	smCRCFail	CRC check failed
–302	smFormatErr	The format of the declaration ROM is wrong
–303	smRevisionErr	The revision of the declaration ROM is wrong
–304	smNoDir	There is no directory
–305	smLWTstBad	The long word test failed
–306	smNosInfoArray	The SDM was unable to allocate memory for the sInfo array
–307	smResrvErr	A reserved field of the declaration ROM was used (fatal)
–308	smUnExBusErr	An unexpected Bus Error occurred
–309	smBLFieldBad	A valid ByteLanes field was not found
–310	smFHBlockRdErr	The F–Header block could not be read
–311	smFHBlkDispErr	The F–Header block could not be disposed of
–312	smDisposePErr	An error occured during execution of _DisposPointer
–313	smNoBoardsRsrc	There is no board sResource
–314	smGetPRErr	An error occured during execution of _sGetPRAMRec
–315	smNoBoardId	There is no board ID
–316	smInitStatVErr	The InitStatus_V field was negative after Primary Init
–317	smInitTblErr	An error occured while trying to initialize the Slot Resource Table
–318	smNoJmpTbl	Slot Manager jump table could not be created
–319	smBadBoardID	Board ID was wrong; reinit the PRAM record

Slot Manager Errors (non-fatal)

–330	smBadRefId	Reference ID was not found in the given list
–331	smBadsList	The IDs in the given sList are not in ascending order
–332	smReservedErr	A reserved field was not zero

–333	smCodeRevErr	The revision of the code to be executed by sExec was wrong
–334	smCPUErr	The CPU field of the code to be executed by sExec was wrong
–335	smsPointerNil	The sPointer is nil: no list is specified
–336	smNilsBlockErr	The physical block size (of an sBlock) was zero
–337	smSlotOOBErr	The given slot was out of bounds (or does not exist)
–338	smSelOOBErr	Selector is out of bounds
–339	smNewPErr	An error occured during execution of _NewPointer
–341	smCkStatusErr	Status of slot is bad (InitStatus_A,V)
–342	smGetDrvrNamErr	An error occured during execution of _sGetDrvrName
–344	smNoMoresRsrcs	No more sResources
–345	smGetDrvrErr	An error occured during execution of _sGetDrvr
–346	smBadsPtrErr	A bad sPointer was presented to a SDM call
–347	smByteLanesErr	Bad ByteLanes value was passed to an SDM call
–349	smNoGoodOpens	No opens were successful in the loop
–350	smSRTOvrFlErr	Slot Resource Table overflow
–351	smRecNotFnd	Record not found in the Slot Resource Table

Additional Device Manager Errors

–360	slotNumErr	Invalid slot number

Additional AppleTalk Manager Errors

–1024	nbpBuffOvr	NBP buffer overflow
–1025	nbpNoConfirm	NBP name not confirmed
–1026	nbpConfDiff	NBP name confirmed for different socket
–1027	nbpDuplicate	NBP duplicate name already exists
–1028	nbpNotFound	NBP name not found
–1029	nbpNISErr	NBP names information socket error
–1066	aspBadVersNum	Server cannot support this ASP version
–1067	aspBufTooSmall	Buffer too small
–1068	aspNoMoreSess	No more sessions on server
–1069	aspNoServers	No servers at that address
–1070	aspParamErr	Parameter error
–1071	aspServerBusy	Server cannot open another session
–1072	aspSessClosed	Session closed
–1073	aspSizeErr	Command block too big
–1074	aspTooMany	Too many clients
–1075	aspNoAck	No ACK on attention request
–1096	reqFailed	ATPSndRequest failed: retry count exceeded
–1097	tooManyReqs	ATP too many concurrent requests
–1098	tooManySkts	ATP too many responding sockets
–1099	badATPSkt	ATP bad responding socket
–1100	badBuffNum	ATP bad sequence number
–1101	noRelErr	ATP no release received
–1102	cbNotFound	ATP control block not found
–1103	noSendResp	ATPAddRsp issued before ATPSndRsp
–1104	noDataArea	Too many outstanding ATP calls
–1105	reqAborted	Request aborted
–3101	buf2SmallErr	ALAP frame too large for buffer DDP datagram too large for buffer
–3102	noMPPError	MPP driver not installed
–3103	cksumErr	DDP bad checksum
–3104	extractErr	NBP can't find tuple in buffer

–3105	readQErr	Socket or protocol type invalid or not found in table
–3106	atpLenErr	ATP response message too large
–3107	atpBadRsp	Bad response from ATPRequest
–3108	recNotFnd	ABRecord not found
–3109	sktClosedErr	Asynchronous call aborted because socket was closed before call was completed

Returned by the Printing Manager when used with a LaserWriter

–4101		Printer not found, or closed
–4100		Connection just closed
–4099		Write request too big
–4098		Request already active
–4097		Bad connection reference number
–4096		No free Connect Control Blocks available

Returned by SysEnvirons call

–5500	envNotPresent	SysEnvirons trap not present (System file earlier than version 4.1); glue returns values for all fields except systemVersion
–5501	envBadVers	A nonpositive version number was passed—no information is returned
–5502	envVersTooBig	Requested version of SysEnvirons call was not available

END OF DOCUMENT